



OIPD

RAW SEQUENCE LISTING

DATE: 03/04/2002

PATENT APPLICATION: US/10/077,438

TIME: 14:44:16

Input Set : A:\A080pct.txt

Output Set: N:\CRF3\03042002\J077438.raw

```

4 <110> APPLICANT: MacKay, Fabienne
5      Browning, Jeffrey
6      Ambrose, Christine
7      Tschopp, Jurg
8      Schneider, Pascal
9      Thompson, Jeffrey
10     Biogen, Inc.
11     Apotech R&D S.A.
13 <120> TITLE OF INVENTION: Baff Receptor (BCMA), An
14     Immunoregulatory Agent
16 <130> FILE REFERENCE: A080PCT
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/077,438
C--> 19 <141> CURRENT FILING DATE: 2002-02-18
21 <150> PRIOR APPLICATION NUMBER: 60/149,378
22 <151> PRIOR FILING DATE: 1999-08-17
24 <150> PRIOR APPLICATION NUMBER: 60/181,684
25 <151> PRIOR FILING DATE: 2000-02-11
27 <150> PRIOR APPLICATION NUMBER: 60/183,536
28 <151> PRIOR FILING DATE: 2000-02-18
30 <160> NUMBER OF SEQ ID NOS: 8
32 <170> SOFTWARE: FastSEQ for Windows Version 4.0
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 184
36 <212> TYPE: PRT
37 <213> ORGANISM: homo sapien
39 <400> SEQUENCE: 1
40 Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
41 1 5 10 15
42 Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
43 20 25 30
44 Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
45 35 40 45
46 Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
47 50 55 60
48 Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
49 65 70 75 80
50 Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
51 85 90 95
52 Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
53 100 105 110
54 Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
55 115 120 125
56 Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe

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57      130      135      140
58 Pro Leu Pro Ala Met Glu Glu Ala Thr Ile Leu Val Thr Thr Lys
59 145      150      155      160
60 Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu
61      165      170      175
62 Ile Glu Lys Ser Ile Ser Ala Arg
63      180
64 <210> SEQ ID NO: 1
65 <211> LENGTH: 552
66 <212> TYPE: DNA
67 <213> ORGANISM: homo sapien
68 <400> SEQUENCE: 2
71 atgttgacaga tygctgggca gtgtctcccaa aatgaatatt ttgacagttt gttgcatgct      60
72 tgcataacctt gtaaccttcg atgtttctct aatactcttc ctctaaccatg tcaggttatt      120
73 gtaatgcaag tgtgaccaat tcagtgaag gaaagaatgc gattctctgg acctgtttgg      180
74 gactgagctt aataatttct ttggcagttt tegtgtctaat gtttttgcta aggaagataa      240
75 gctctgaaac attaaaagac gagtttaaaa acacaggatc aggtctcttg ggcattggcta      300
76 acattgacct gaaaaagagc aggaactggtg atgaaattat tctcagagag gectcgagta      360
77 caactgggaa gaatgcacct gtgaagaactg catcaagagc aaacagaagg tcgactctga      420
78 caattgcttt caactccag ctatggagga aggcgcaacc attctgtcac caggaaaacg      480
79 aatgactatt gcaagagcct gccagctgct ttgagtgtcta cggagataga gaaatcaatt      540
80 tctgttaggt aa      552
81 <210> SEQ ID NO: 3
82 <211> LENGTH: 207
83 <212> TYPE: PRT
84 <213> ORGANISM: homo sapien
85 <400> SEQUENCE: 3
88 Met Asp Thr Leu Leu Trp Val Leu Leu Leu Trp Val Pro Gly Ser
89 1      5      10      15
90 Thr Gly Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe
91      20      25      30
92 Asp Ser Leu Asp Val Thr Met Leu Gln Met Ala Gly Gln Cys Ser Gln
93      35      40      45
94 Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile Pro Cys Gln Leu
95      50      55      60
96 Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Leu His Ala Cys Ile
97 65      70      75      80
98 Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln
99      85      90      95
100 Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Gln Arg Tyr
101      100      105      110
102 Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Val Asp Lys Thr His
103      115      120      125
104 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
105      130      135      140
106 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
107 145      150      155      160
108 Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
109      165      170      175

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110 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
111             180             185             190
112 Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Tyr Val Val Ser Val
113             195             200             205
115 <210> SEQ ID NO: 4
116 <211> LENGTH: 540
117 <212> TYPE: DNA
118 <213> ORGANISM: homo sapien
120 <400> SEQUENCE: 4
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122 gacgtcacga tgttgacgat ggcagggcag tctcccaaaa atgaatattt tgacagtgtt      120
123 ttgcattgct gcataccttg tcaacttcca tgtttttcta atactcctcc tctaacatgt      180
124 cagcgtttatt gtaatgcaag ttgaccaaat tcagtgaag gagtcgacaa aactcacaca      240
125 tggccacccg gccacagacc tgaactcttg gggggaccgt cagtcttctt ctccccccca      300
126 aaaccccaagg acacctcat gatctccggg acccctgagg tccatgctgt ggtggtggac      360
127 ctgacccacg aagacctga ggtcaagttc aactcgtacg tgaacggcgt ggaggtgcat      420
128 aatgccaaga caaagccgct ggaggagcag tacaacagca cgtacgtgtt ggtcagcgtc      480
129 ctacccgtcc tgcaccagga ctggtgaat ggcaaggagt acaagtgcac ggtctccaac      540
131 <210> SEQ ID NO: 5
132 <211> LENGTH: 140
133 <212> TYPE: PRO
134 <213> ORGANISM: homo sapien
136 <400> SEQUENCE: 5
137 Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
138 1             5             10             15
139 Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
140             20             25             30
141 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
142             35             40             45
143 Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
144             50             55             60
145 Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
146 65             70             75             80
147 Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
148             85             90             95
149 Gly Ser Phe Phe Lys Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
150             100            105            110
151 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
152             115            120            125
153 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
154             130            135            140
156 <210> SEQ ID NO: 6
157 <211> LENGTH: 369
158 <212> TYPE: DNA
159 <213> ORGANISM: homo sapien
161 <400> SEQUENCE: 6
162 aaagccctcc cagcccccac caaqaanaac atctccaaaq ccaaaqqqca qccccqaaa      60
163 ccacaggtgt acacctgcc cccatcccgq gatgaqctga ccaqaacca qqtcaqctq      120
164 acctgccttg tcaaaqctt ctatcccagc gacatgcctt tgaatgqqa aaqcaatqqq      180

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165 cagcccccaga acaactacaa gaccacgect cccgtattta actccgacgg ctctctcttc 240
166 ctctacacga agctcaccat ggacaagagc aggtggcagc agcgggaact ctctctatgc 300
167 tccgtgatgc atgaggetct gcacaaccac tacacgcaga agagcctctc cctgtctccc 360
168 gggaaatqa 369

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170 <210> SEQ ID NO: 7

171 <211> LENGTH: 184

172 <212> TYPE: PRT

173 <213> ORGANISM: homo sapien

175 <400> SEQUENCE: 7

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176 Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
177 1 5 10 15
178 Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
179 20 25 30
180 Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
181 35 40 45
182 Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
183 50 55 60
184 Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
185 65 70 75 80
186 Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
187 85 90 95
188 Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
189 100 105 110
190 Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
191 115 120 125
192 Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe
193 130 135 140
194 Pro Leu Pro Ala Met Glu Gly Ala Thr Ile Leu Val Thr Thr Lys
195 145 150 155 160
196 Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu
197 165 170 175
198 Ile Glu Lys Ser Ile Ser Ala Arg
199 180

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201 <210> SEQ ID NO: 8

202 <211> LENGTH: 995

203 <212> TYPE: DNA

204 <213> ORGANISM: Homo Sapien

206 <400> SEQUENCE: 8

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207 aagactcaaa cttagaaaact tgaattagat gtggtattca aatccttacg tgccgcgaag 60
208 acacagacag ccccgtaag aacccacgaa gcaggcgaag ttcattgttc tcaacattct 120
209 agctgctctt gctgcatttg ctctggaatt cttgtagaga tattacttgt ccttcacggc 180
210 tgtctcttct gtagctccct tgtttcttt ttgtgatcat gttgcagatg gctgggcagt 240
211 gctcccaaaa tgaatatctt gacagtttgt tgcattgctt cataccttgt caacttcgat 300
212 gttcttctaa tactctctct ctaacatgtc aqcgttattg taatgcaagt gtgaccaatt 360
213 caqtgaaaag aacgaatgcg attctctgga cctggttggg actgaqctta ataatttctt 420
214 tggcagtttt cgtgctaatt tttttgctaa ggaagataag ctctgaacca ttaaaggacg 480
215 aqtttaaaaa cacagqatca ggtctctgtg qcatqgctaa cattgacctg qaaaaagaca 540
216 ggaactqgtg tgaatttatt ctcccgagag cctcagagta cacggtggaa qaatgcacct 600
217 gtgaagaactg catcaagagc aaaccgaagc tcgaactctg ccattgcttt caactcccaq 660

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218	ctatcgaa	aa	atcccaacc	attcttttca	ccacgaaaan	gaatgaat	at	tgcagagcc	720
219	tcccagctgc	tttqaq	gct	acggagatag	agaaatcaat	ttctgctagc	taattaa	ccca	780
220	tttcgaactc	agcagtgcca	ctttaaaaat	ctttttgtcag	aatagatgat	gtgtcagatc			840
221	tctttagga	t	gactgtattt	ttcagttgcc	gatacaactt	tttgtcctct	aactgtggaa		900
222	actctttatg	ttagatata	ttctctaggt	tactgttggg	agcttaatgg	tagaaacttc			960
223	cttggtttca	tgattaaagt	cttttttttt	cctga					995

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/077,438

DATE: 03/04/2002

TIME: 14:44:18

Input Set : A:\A080pct.txt

Output Set: N:\CRF3\03042002\J077438.raw

1:18 M:270 C: Current Application Number differs. Replaced Current Application Number

1:19 M:271 C: Current Filing Date differs. Replaced Current Filing Date